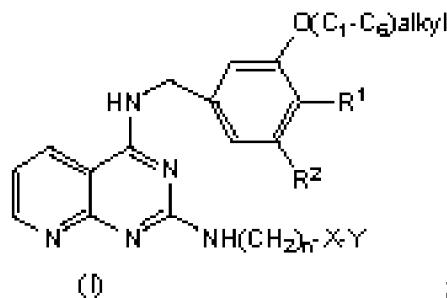


Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in this application:

Listing of Claims

1. (Original) A compound of formula (I)



the prodrugs thereof, and the pharmaceutically acceptable salts of said compounds or prodrugs, wherein:

R<sup>1</sup> and R<sup>2</sup> are hydrogen or methoxy, provided R<sup>1</sup> and R<sup>2</sup> are not both hydrogen or both methoxy;

n is 1, 2, 3, or 4;

X is a bond; O; S; C=O; -N(R)-, wherein R is hydrogen or -(C<sub>1</sub>-C<sub>3</sub>)alkyl; -C(OH)-; or -SO<sub>2</sub>; and

Y is benzoxazolyl; benzothiazolyl; benzofurazanyl; benzofuranyl; benzothiadiazolyl; benzisoxazolyl; benzisothiazolyl; benzimidazolyl; pyridyl; isatinyl; oxindolyl; indazolyl; indolyl; phenyl; thiienyl; or furanyl; wherein Y is optionally substituted independently with from one to three halogen; trifluoromethyl; methoxy; -O(=O)CH<sub>3</sub>; cyano; -O(CH<sub>3</sub>)<sub>2</sub>OH; -CH(CH<sub>3</sub>)OH; -CH(CF<sub>3</sub>)OH; -C(C=O)CF<sub>3</sub>; -SO<sub>2</sub>NH<sub>2</sub>; -O(=O)OCH<sub>3</sub>; -CH<sub>2</sub>COOH; ; thiazolyl; or oxadiazolyl.

2. (Original) A compound of claim 1, wherein X is a bond, and Y is benzofurazanyl; thiienyl; pyridyl; or phenyl, wherein phenyl is optionally substituted independently with one or two halogen; trifluoromethyl; methoxy; -C(=O)CH<sub>3</sub>; cyano; -C(CH<sub>3</sub>)<sub>2</sub>OH; -CH(CH<sub>3</sub>)OH; -CH(CF<sub>3</sub>)OH; -C(C=O)CF<sub>3</sub>; -SO<sub>2</sub>NH<sub>2</sub>; -C(=O)OCH<sub>3</sub>; -CH<sub>2</sub>COOH; thiazolyl; or oxadiazolyl.

3. (Currently Amended) A compound of claim 1 or 2, wherein X is a bond, n is 2 or 3, and Y is thiienyl; pyridyl; or phenyl, wherein phenyl is optionally substituted independently with one or two methoxy; halogen; -O(CH<sub>3</sub>)<sub>2</sub>OH; CH(CF<sub>3</sub>)OH; or -C(C=O)CF<sub>3</sub>.

4. (Original) *N<sup>2</sup>,N<sup>4</sup>-bis-(3,5-Dimethoxy-benzyl)-pyrido[2,3-d]pyrimidine-2,4-diamine; N<sup>4</sup>-(3,5-dimethoxy-benzyl)-N<sup>2</sup>-(2-pyridin-4-yl-ethyl)-pyrido[2,3-d]pyrimidine-2,4-diamine;*  
*N<sup>4</sup>-(3,5-dimethoxy-benzyl)-N<sup>2</sup>-(2-thiophen-2-yl-ethyl)-pyrido[2,3-d]pyrimidine-2,4-diamine;*  
*N<sup>4</sup>-(3,5-dimethoxy-benzyl)-N<sup>2</sup>-(2-(3,5-dimethoxy-phenyl)-ethyl)-pyrido[2,3-d]pyrimidine-2,4-diamine;*  
*2-(3-[4-(3,4-dimethoxy-benzylamino)-pyrido[2,3-d]pyrimidin-2-ylamino]-propyl)-phenyl)-propan-2-ol;*  
*N<sup>4</sup>-(3,4-dimethoxy-benzyl)-N<sup>2</sup>-(2-(4-fluoro-phenyl)-ethyl)-pyrido[2,3-d]pyrimidine-2,4-diamine;*  
*N<sup>4</sup>-(3,4-dimethoxy-benzyl)-N<sup>2</sup>-(3-phenyl-propyl)-pyrido[2,3-d]pyrimidine-2,4-diamine; a prodrug thereof, or a pharmaceutically acceptable salt of said compound or prodrug.*

5. (Currently Amended) A pharmaceutical composition comprising a compound of formula (I) of claim 1 any of claims 1-4, a prodrug thereof, or a pharmaceutically acceptable salt of said compound or prodrug, and a pharmaceutically acceptable vehicle, carrier, or diluent.

6. (Currently Amended) A method of treating a PDE 2-mediated condition, disease, or symptom in a mammal in need of such treatment which method comprises administering to said mammal a therapeutically effective amount of a compound of formula (i) of claim 1 ~~any of claims 1-4~~, a prodrug thereof, or a pharmaceutically acceptable salt of said compound or prodrug; or a pharmaceutical composition comprising said compound of formula (i), said prodrug thereof, or a pharmaceutically acceptable salt of said compound or prodrug, and a pharmaceutically acceptable vehicle, carrier, or diluent.

7. (Original) A method of claim 6, wherein said condition, disease, or symptom is osteoporosis, pulmonary hypertension, female sexual arousal disorder, diminished memory or cognition, platelet aggregation, vascular angiogenesis, dementia, cancer, arrhythmia, thrombosis, bone fracture and/or defect, delayed or non-union fracture, spinal fusion, bone in-growth, cranial facial reconstruction, or hypoxia which method comprises administering to mammal in need of such treatment a therapeutically effective amount of a compound of formula (i) of claim 1, a prodrug thereof, or a pharmaceutically acceptable salt of said compound or prodrug; or a pharmaceutical composition comprising said compound, said prodrug thereof, or said pharmaceutically acceptable salt of said compound or prodrug.

8. (Original) A method of claim 6, wherein said condition is bone fracture and/or defect.

9. (Original) A pharmaceutical composition comprising a PDE 2 inhibitor, an EP<sub>2</sub> selective receptor agonist, and a pharmaceutically acceptable vehicle, carrier, or diluent.

10. (Original) A composition of claim 9, wherein said PDE 2 inhibitor is *N*<sup>4</sup>-(3,5-dimethoxy-benzyl)-*N*<sup>2</sup>-(2-pyridin-4-yl-ethyl)-pyrido[2,3-d]pyrimidin-2,4-diamine; 2-(3-[4-(3,4-dimethoxy-benzylamino)-pyrido[2,3-d]pyrimidin-2-ylamino]-propyl)-phenyl)-propan-2-ol; *N*<sup>4</sup>-(3,4-dimethoxy-benzyl)-*N*<sup>2</sup>-(3-phenyl-propyl)-pyrido[2,3-d]pyrimidine-2,4-diamine; a prodrug thereof, or a pharmaceutically acceptable salt of said compound or prodrug.

11. (Currently Amended) A composition of claim 9-~~or 10~~, wherein said said EP<sub>2</sub>s selective receptor agonist is (3-(((4-*tert*-butyl-benzyl)-(pyridine-3-sulfonyl)-amino)-methyl)-phenoxy)-acetic acid, a prodrug thereof, or a pharmaceutically acceptable salt of said compound or prodrug.

12. (Currently Amended) A method of ~~claim 6 any of claims 6-8~~, further comprising administering to said mammal a therapeutically effective amount of an EP<sub>2</sub> selective receptor agonist or a pharmaceutical composition comprising a combination of said compound of formula (I) of claim 1 and said EP<sub>2</sub>s selective receptor agonist.

13. (Original) A method of claim 12, wherein said PDE 2 inhibitor is *N*<sup>4</sup>-(3,5-dimethoxy-benzyl)-*N*<sup>2</sup>-(2-pyridin-4-yl-ethyl)-pyrido[2,3-d]pyrimidin-2,4-diamine; 2-(3-[4-(3,4-dimethoxy-benzylamino)-pyrido[2,3-d]pyrimidin-2-ylamino]-propyl)-phenyl-propan-2-ol; *N*<sup>4</sup>-(3,4-dimethoxy-benzyl)-*N*<sup>2</sup>-(3-phenyl-propyl)-pyrido[2,3-d]pyrimidine-2,4-diamine; a prodrug thereof, or a pharmaceutically acceptable salt of said compound or prodrug.

14. (Original) A method of claim 12-~~or 13~~, wherein said EP<sub>2</sub> selective receptor agonist is (3-(((4-*tert*-butyl-benzyl)-(pyridine-3-sulfonyl)-amino)-methyl)-phenoxy)-acetic acid, a prodrug thereof, or a pharmaceutically acceptable salt of said compound or prodrug.

15. (Original) A method of treating bone fracture and/or defect in a mammal in need of such treatment which method comprises administering to said mammal a therapeutically effective amount of a PDE 2 inhibitor, a prodrug thereof, or a pharmaceutically acceptable salt of said inhibitor or prodrug.

16. (New) A compound of claim 2, wherein X is a bond, n is 2 or 3, and Y is thiienyl; pyridyl; or phenyl, wherein phenyl is optionally substituted independently with one or two methoxy; halogen; -O(CH<sub>2</sub>)<sub>2</sub>OH; CH(CF<sub>3</sub>)OH; or -C(C=O)CF<sub>3</sub>

17. (New) A pharmaceutical composition comprising a compound of claim 4, a prodrug thereof, or a pharmaceutically acceptable salt of said compound or prodrug, and a pharmaceutically acceptable vehicle, carrier, or diluent.
18. (New) A method of treating a PDE 2-mediated condition, disease, or symptom in a mammal in need of such treatment which method comprises administering to said mammal a therapeutically effective amount of a compound claim 4, a prodrug thereof, or a pharmaceutically acceptable salt of said compound or prodrug; or a pharmaceutical composition comprising said compound claim 4, said prodrug thereof, or a pharmaceutically acceptable salt of said compound or prodrug, and a pharmaceutically acceptable vehicle, carrier, or diluent.
19. (New) A composition of claim 10, wherein said EP<sub>2</sub> selective receptor agonist is (3-(((4-*tert*-butylbenzyl)-(pyridine-3-sulfonyl)-amino)-methyl)-phenoxy)-acetic acid, a prodrug thereof, or a pharmaceutically acceptable salt of said compound or prodrug.
20. (New) A method of claim 13, wherein said EP<sub>2</sub> selective receptor agonist is (3-(((4-*tert*-butylbenzyl)-(pyridine-3-sulfonyl)-amino)-methyl)-phenoxy)-acetic acid, a prodrug thereof, or a pharmaceutically acceptable salt of said compound or prodrug.